

Kennedy Space Center Roadmap

	Near Term (2001-2003)	Mid Term (2003-2008)	Far Term (2008-2015+)	Goal 1
Operations/ Space Launch Operations	<p>Obj. 1: Assure customer satisfaction by achieving safe operations and mission success (i.e., ELV, Shuttle, ISS)</p> <p>Str. 1: Safely execute customer manifest with on-time, reliable processing</p> <p>Str. 2: Identify and resolve obsolescence and supportability issues</p> <p>Str. 3: Assess and implement risk mitigation actions</p> <p>Str. 4: Safely improve processes and reduce costs</p> <p>Str. 5: Provide Civil Service contract management and “smart buyer” capability through launch vehicle and ISS insight/oversight</p> <p>Obj 2: Reduce risk for future programs</p> <p>Str. 1: Capture and deploy lessons learned to influence the design concepts/architectures for future vehicles, payloads, Spaceport Technology initiatives, and associated systems (e.g., Space Launch Initiative (SLI), 2nd Gen Vehicle)</p> <p>Obj. 3: Effectively participate in major Agency initiatives, proactively identify KSC concerns, and keep the workforce informed</p> <p>Str. 1: Develop concepts for Shuttle privatization and ISS Non-Governmental Organization (NGO)</p>	<p>Obj. 1: Assure customer satisfaction by achieving safe operations and mission success (i.e., ELV, Shuttle, ISS)</p> <p>Str. 1: Provide customers w/ optimal value launch, carrier and payload services which incorporate "mission success first" actions</p> <p>Str. 2: Improve and synergize KSC's operational systems, processes and performance</p> <p>Obj. 2: Reduce risk for future programs</p> <p>Str. 1: Develop transition plans for program initiatives (e.g., SLI to 2nd Gen Vehicle)</p> <p>Str. 2: Continue to incorporate lessons learned to influence the design concepts/architectures for future vehicles, payloads, Spaceport technologies, and associated systems (e.g., 2nd Gen Vehicle)</p> <p>Str. 3: Support implementation of future vehicles, payloads, Spaceport technologies, and associated systems</p> <p>Obj. 3: Effectively participate in major Agency initiatives</p> <p>Str. 1: Safely implement transition plans for program initiatives</p> <p>Str. 2: Provide Civil Service contractor management and “smart buyer” capability through appropriate levels of insight/oversight</p>	<p>Obj. 1: Assure customer satisfaction by achieving safe operations and mission success (i.e., ELV, ISS, Shuttle, 2nd Gen Vehicle)</p> <p>Str. 1: Provide customers w/optimal value launch, carrier and payload services which incorporate "mission success first" actions</p> <p>Str. 2: Improve and synergize KSC's operational systems, processes and performance</p> <p>Obj. 2: Reduce risk for future programs</p> <p>Str. 1: Develop transition plans for program initiatives (e.g., Shuttle to 2nd Gen Vehicle)</p> <p>Str. 2: Continue to incorporate lessons learned to influence the design concepts/architectures for future vehicles, payloads, Spaceport technologies, and associated systems (e.g., 3rd Gen Vehicle, future missions beyond Low Earth Orbit)</p> <p>Str. 3: Support implementation of future vehicles, payloads, Spaceport technologies, and associated systems (e.g., 2nd Gen. Vehicle)</p> <p>Obj. 3: Effectively participate in major Agency initiatives</p> <p>Str. 1: Safely implement transition plans for program initiatives</p> <p>Str. 2: Provide Civil Service contract management and “smart buyer” capability through appropriate levels of insight/oversight</p>	Assure and advance access to space for exploration, development, and use

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Development/ Spaceport & Range Technologies	<p>Obj. 1: Assure customer satisfaction by increasing safety and reducing life cycle costs of space transportation</p> <p>Str. 1: Increase Technology Readiness Level (TRL) for operations technologies for 2nd Gen Vehicle (i.e., SLI)</p> <p>Str. 2: Develop and study control systems concepts for autonomous experiment and payload processing on ISS</p> <p>Str. 3: Develop remote payload and launch site processing capabilities</p> <p>Str. 4: Identify alternatives to current access to space for small payloads</p> <p>Obj. 2: Improve KSC's research and development capabilities</p> <p>Str. 1: Establish a responsive "partnership" with universities/university consortiums to expand opportunities for universities in KSC technology development</p> <p>Str. 2: Implement full cost accounting/recovery methods for research & development</p> <p>Str. 3: Assess needs and upgrade research and development tools (e.g., virtual development environment, modernized labs and testbeds)</p> <p>Str. 4: Improve Program/Project performance</p> <p>Str. 5: Host forums to establish brand name recognition (e.g., conferences, workshops)</p> <p>Str. 6: Develop an effective strategy to increase funding levels for spaceport and range technology projects and increase KSC's role in Agency biological sciences programs</p> <p>Str. 7: Develop technology roadmaps aligned with stakeholder requirements (e.g., Programs, Advanced Spaceport and Range Technology Working Groups)</p>	<p>Obj. 1: Assure customer satisfaction by increasing safety and reducing life cycle costs of space transportation</p> <p>Str. 1: Advance operations technologies for 2nd Gen. Vehicle to high TRL</p> <p>Str. 2: Partner with current and future providers of launch vehicles to develop advanced spaceport and range systems</p> <p>Str. 3: Develop prototypes and test control systems technologies</p> <p>Str. 4: Deploy remote payload and launch site processing systems</p> <p>Str. 5: Develop prototypes and test flights of alternatives to access to space for small payloads</p> <p>Str. 6: Initiate low TRL spaceport and range technology development projects that support space operations beyond Earth orbit</p> <p>Obj. 2: Establish KSC as a premier Spaceport Technology Center (STC)</p> <p>Str. 1: Fully implement the university "partnership"</p> <p>Str. 2: Expand business base utilizing full-cost methods (Gov't, Industry, Academia)</p> <p>Str. 3: Assess needs and upgrade research and development tools (e.g., state-of-the-art labs and testbeds, virtual design tools)</p> <p>Str. 4: Establish reputation as brand name of choice</p> <p>Str. 5: Increase funding levels for spaceport, biological sciences and range projects</p> <p>Str. 6: Increase joint funding arrangements between stakeholders (e.g., Programs, Advanced Spaceport and Range Technology Working Groups)</p>	<p>Obj. 1: Assure customer satisfaction by increasing safety and reducing life cycle costs of space transportation</p> <p>Str. 1: Establish operations technologies for 3rd Gen Vehicle</p> <p>Str. 2: Commercialize technologies to support access to space</p> <p>Obj. 2: Further enhance KSC's premier research and development capabilities</p> <p>Str. 1: Adjust lines of business and customer selection to expand business and support space operations and exploration (e.g., 3rd Gen Vehicle, Moon/Mars/Libration points missions)</p> <p>Str. 2: Operate in a virtual collaborative engineering environment</p> <p>Str. 3: Expand brand name recognition world-wide</p> <p>Str. 4: Provide methods, processes, and technologies for spaceports everywhere</p>	Provide innovative Spaceport and Range technologies for safe space operations and exploration missions

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Enabling/ Crosscutting	<p>Obj. 1: Provide a high-quality, diverse workforce Str. 1: Implement and baseline a KSC competency management system with the goal of reducing selected competency gaps by 90% per year</p> <p>Obj 2: Strengthen NASA's safety, health, security and environmental stewardship Str. 1: Achieve VPP STAR certification Str. 2: Identify high cardiovascular risk individuals and increase participation in intervention programs Str. 3: Reduce NOV and spills Str. 4: Complete the 5-year energy plan and implement alternate energy sources Str. 5: Identify and eliminate critical security gaps</p> <p>Obj 3: Enhance KSC's infrastructure and business practices to meet Agency and national priorities Str. 1: Meet NASA's IFMP implementation schedule Str. 2: Meet the eNASA development schedule Str. 3: Complete the Federal Spaceport study and follow-on actions Str. 4: Establish at least 3 tenant agreements for the Int'l Space Research Park Str. 5: Design and implement a Facility Condition Index to enable more informed facility investment decisions</p> <p>Obj4: Strengthen reliance and teamwork Str. 1: Develop a plan to improve KSC's inter/intra-organizational communications Str. 2: Implement tools to characterize KSC's reliance and teamwork environment Str. 3: Clearly define NASA internal services and customers</p>	<p>Obj. 1: Develop key workforce strategies to ensure smooth STC transition Str. 1: Properly align and balance the workforce to effectively manage the STC Str. 2: Utilize competency management information to design innovative organizational development reforms</p> <p>Obj. 2: Strengthen NASA's safety, health, security and environmental stewardship Str. 1: Reduce lost time frequency to .1 Str. 2: Reduce overall high risk cardiovascular disease prevalence by 10% Str. 3: Decrease NOV to zero Str. 4: Reduce the energy use index by 30% and expand the use of alternate energy sources Str. 5: Identify and correct security gaps and reduce the number to zero</p> <p>Obj. 3: Enhance KSC's infrastructure and business practices to meet Agency and national priorities Str. 1: Meet NASA's IFMP implementation schedule Str. 2: Complete implementation of eNASA Str. 3: Deploy Federal Spaceport transition plan and associated legislation Str. 4: Explore and implement non-CoF approaches to align facilities capabilities with future needs</p> <p>Obj. 4: Strengthen reliance and teamwork Str. 1: Explore and deploy new methods of keeping the diverse workforce informed Str. 2: Simplify and improve internal services using customer feedback to respond to a changing environment</p>	<p>Obj. 1: Attract, develop and retain a world class diverse STC workforce Str. 1: Implement bold, path-finding human resources reforms that assist in developing a flexible and agile workforce to position the STC to outpace competitors for future business</p> <p>Obj. 2: Strengthen NASA's safety, health, security and environmental stewardship Str. 1: Reduce lost time frequency to zero and begin collecting data on non work- related lost time cases Str. 2: Reduce overall high risk cardiovascular disease prevalence by an additional 10% Str. 3: Maintain NOV at zero Str. 4: Reduce energy use index by 35% and further expand the use of alternative energy sources Str. 5: Proactively identify technology to enhance security and reduce costs</p> <p>Obj. 3: Enhance KSC's infrastructure and business practices to meet Agency and national priorities Str. 1: Utilize emerging technologies to provide world-class business practices Str. 2: Capitalize on institutional capabilities of others, including a Federal Spaceport, to provide safe, robust, flexible facilities</p> <p>Obj. 4: Strengthen reliance and teamwork Str. 1: Utilize new technologies and methods to further enhance communications Str. 2: Reevaluate and revolutionize internal services to support complex STC interrelationships</p>	Provide and assure safe, world-class services for operations and development functions